

BOBBY JINDAL
GOVERNOR



PEGGY M. HATCH
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.:

Activity No.: PER20090005
Agency Interest No. 1413

Mr. Casey Smithhart
Site Leader
1200 Airline Hwy
Baton Rouge, LA 70805

RE: Part 70 Operating Permit
UOP, LLC - Baton Rouge Plant
Baton Rouge, East Baton Rouge Parish, Louisiana

Dear Mr. Smithhart:

This is to inform you that the permit renewal/modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2015, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2010.

Permit No.: 0840-00009-V1

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary
CSN: AHG
c: EPA Region VI

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

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Baton Rouge, East Baton Rouge Parish, Louisiana**

I. Background

The Baton Rouge plant was originally built by the United States Government in the mid 1940's through the Defense Plant Corporation and operated by the Aluminum Company of America (ALCOA). After World War II, Kaiser Aluminum and Chemical Corporation purchased the property. The plant was expanded in 1951. At that time, the plant consisted of two operations: the facility north of the Mississippi Bridge was the metals operation, while the facility south of the bridge produced the trihydrate alumina. Permit No. 111 was issued on June 8, 1972 to install a drier for the substrate alumina spheres. The dryer is no longer in service. Permit No. 559 was issued on February 10, 1976 to produce a new aluminum refractory material which included an aluminum fluoride compound. The reactivation of the No. 1 Kiln was permitted under Permit No. 604, issued on May 25, 1976. Operations of the kiln ceased in 1983. Permit No. 745 was issued on May 20, 1977 to allow for increased production of the material authorized in Permit No. 559. In addition, the permit approved new bauxite storage and handling on property purchased just north of the bridge. Permit No. 1575 was issued on July 6, 1981 to allow for the four rotary kilns of the metals plant to be replaced with fluidized bed calciners. Construction began but was never completed. Permit No. 1576 was also issued on July 6, 1981 to expand the production of substrate alumina and tabular alumina in the chemicals plant. The tabular expansion modification was never built. Permit No. 1847T was issued on April 29, 1983 to install a Package Steam Boiler and a Hydrate unloading Bin. These pieces of equipment were installed to allow for the permanent shutdown of the metals plant on the north side of the Mississippi River Bridge. Permit No. 1975 was issued on January 19, 1988 to add a special active production process which includes pelletizing versal alumina and active alumina. Effective July 27, 1988, LaRoche Chemicals, Inc. purchased the chemicals facility. The change of ownership was approved on August 11, 1994. Permit No. 2121 was issued on March 6, 1992 to allow for the construction of the "C" Active production line. The permit was administratively amended on April 14, 1994 to incorporate the result of stack test on the Flash Calciner Vent, EP C-73. Permit 0840-00009-01 was issued on November 16, 1992 for a specialty alumina products designated as the Stone Project which includes EP C-85 and C-86. Emission Point C-85 was never constructed. The facility was issued an owner name change to LaRoche Industries on August 22, 1994. The facility was issued a change in ownership on October 19, 1999, from LaRoche Industries to UOP, LLC.

A modification consisting of reconciling various sources and emissions based on the operation since the change of ownership; modifying the operation to include the production of an alumina product with a copper additive; replacing an existing boiler with a new (used) package boiler; and obtaining a Part 70 Operating permit was approved

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and Permit No. 0840-00009-V0 was issued May 16, 2005, under which UOP Baton Rouge Plant currently operates.

This will be the Part 70 operating permit for the facility.

II. Origin

A permit application and Emission Inventory Questionnaire were submitted by UOP, LLC – Baton Rouge Plant on October 15, 2009 requesting renewal and modification of its Part 70 operating permit No. 0840-00009-V0. Additional information dated February 1, 2010, March 18, 2010, and March 26, 2010 was also received.

III. Description

UOP, LLC – Baton Rouge Plant (UOP Baton Rouge) consists of two processing areas – the “Actives” Plants and the “Versal” Plants. The Actives Plants contain one calcining oven and two “Activator” ovens (dryers). The Versal Plants contain two spray dryers. The Active Plants produce activated alumina from aluminum trihydrate, which is obtained from a supplier, while the Versal Plants produce precipitated alumina from sodium aluminate.

The “Actives” plants comprise the Active A, Active B, and Active Powder plants. The Active Powder plant is mostly used to produce feedstock for plants A and B. However, some of the product from the Active Powder plant is sold directly as product. In the active process, activated alumina is produced from aluminum trihydrate. The aluminum trihydrate is milled to the desired particle size and dried in the flash calciner. The flash calcined alumina (FCA) is collected in hoppers and transferred to a nodulizer or pelletizer. Water and/or other additives (zeolite, lime or copper carbonate) are combined with the FCA to form pellets. Zeolites are occasionally used with FCA as the feedstock for active B, while lime is used exclusively with FCA for feedstock to Active A. The FCA pellets are then activated in the Activator oven, which removes free water and some of the chemically bound water. The activated alumina product is then screened and stored in product bins prior to packaging for off-site shipment.

The “Versal” plants comprise the Versal I and Versal II plants. The main feedstock for the Versal plants is sodium aluminate. This material is either purchased from a supplier or is produced onsite by reacting aluminum trihydrate (the feedstock for the Actives plants) with a caustic solution in a digester. The sodium aluminate solution is then combined with either hydrochloric acid and water or aluminum chloride and water in the

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Versal reactor. Alumina is precipitated from this reaction mixture. The solution is then sent to a filtration processing step that separates the precipitated alumina material from the reaction mixture. The alumina material is washed and dewatered and then fed to a spray dryer. The precipitated alumina product is then screened and stored in product bins prior to packaging for off-site shipment.

The Pilot Plant serves as a research and development unit as well as an intermittent limited production unit, operating similarly to the manufacturing units at the UOP facility. A wide variety of chemical raw materials, intermediates, and products are studied in the Pilot Plant. This plant is capable of making essentially all intermediates and products produced at the UOP facility, plus many others that can only be produced in the Pilot Plant. The Pilot Plant is utilized for the following main activities:

- To conduct process improvement studies for waste minimization and yield improvement;
- To study, develop and optimize manufacturing and new processes;
- To produce specialty products on an as-needed basis;
- To gather data for the design of commercial scale plants; and
- To produce small quantities of various products for customer evaluation where large scale production in the existing plant is not practical or possible.

UOP Baton Rouge proposes the following changes at the facility:

1. Addition of a separate Bin Vent Dust Collector (Source ID C-116). The vent from this Bin is currently routed to Source ID C-10. This is needed to eliminate moisture currently entering this Bin from the other points routed to the Active B Process Points Dust Collector (Source ID C-10);
2. Deletion of Emission Points associated with the Active C Plant, as this unit has been demolished. This request results in the removal of the following three emission points from the permit: EQT042 (C-72) - Active C Activator Dust Collector, EQT044 (C-74) - Active C Nodulizer Feed Bin Dust Collector, and EQT045 (C-75) - Active C Process Points Dust Collector;
3. Redefining fugitive emissions point FUG005 (C-83). This fugitive emissions point is named "Active C Fugitive Emissions" in the current Title V permit. However, this emissions point has always served as the collective fugitive emissions from both the

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Active Powders and Active C Plants due to the proximity of the equipment. The UOP Baton Rouge Plant requests that this fugitives emission point now be named "Active Powder Fugitive Emissions" since the Active C Plant has been demolished;

4. Deletion of Emission Point EQT012 (C-104) - Formic Acid Tank, as this tank has been removed from service and demolished;
5. Incorporation of Compliance Assurance Monitoring (CAM) regulations, as applicable;
6. Additions, changes, and updates to the Insignificant Activities and General Condition XVII Activities included in the Title V Permit;
7. Update of the descriptions, as presented in this application, for Source IDs C-102 and C-103 to better match records at the facility;
8. Removal of Tank C-601 (routed to Source ID C-84) from the permit, as this tank has been demolished; and
9. Request to update all specific requirements in the permit that currently state "Visible emissions monitored by visual inspection/determination daily" to be restated as "Visible emissions monitored by visual inspection/determination daily during operation (when in service)".

Estimated emissions in tons per year are as follows:

| Pollutant | Before | After | Change |
|------------------------|--------|-------|--------|
| PM ₁₀ | 49.26 | 48.54 | - 0.72 |
| SO ₂ | 0.94 | 0.92 | - 0.02 |
| NO _x | 47.31 | 47.28 | - 0.03 |
| CO | 39.98 | 39.47 | - 0.51 |
| VOC * | 3.35 | 3.10 | - 0.25 |
| Hydrochloric Acid | 0.09 | 0.09 | - |
| Chlorine | 0.01 | 0.01 | - |
| Copper (and compounds) | 0.50 | 0.50 | - |
| Sulfuric Acid | <0.01 | <0.01 | - |

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***VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

| Pollutant | Before | After | Change |
|-----------------------------------|--------|-------|--------|
| 2,2,4-Trimethylpentane | <0.01 | <0.01 | - |
| Benzene | <0.01 | <0.01 | - |
| Ethyl benzene | <0.01 | <0.01 | - |
| Methyl Tertiary Butyl Ether | 0.04 | 0.04 | - |
| n-Hexane | <0.01 | <0.01 | - |
| Polynuclear Aromatic Hydrocarbons | <0.01 | <0.01 | - |
| Toluene | <0.01 | <0.01 | - |
| Xylene (mixed isomers) | <0.01 | <0.01 | - |
| Total | 0.05 | 0.05 | - |

Other VOC (TPY): 3.05

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70 and the Louisiana Air Quality Regulations and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD), and New Source Performance Standards (NSPS) do not apply.

This facility is a minor source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

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VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Emissions associated with the proposed modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

Dispersion Model(s) Used: ISCST3

| Pollutant | Time Period | Calculated Maximum Ground Level Concentration ¹ | Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard (NAAQS)) |
|------------------|-------------|--|--|
| PM ₁₀ | Annual | 17.22 µg/m ³ | (50 µg/m ³) |
| | 24 - Hour | 147.40 µg/m ³ | (150 µg/m ³) |

¹Modeling results from the initial Part 70 operating permit.

VIII. General Condition XVII Activities

| Work Activity | Schedule | Emission Rates - tons | | | | | |
|--|---|-----------------------|-----------------|-----------------|----|------|---------|
| | | PM ₁₀ | SO ₂ | NO _x | CO | VOC | Other |
| Injection of Methanol as Anti- Freeze for Piping | Continuous during the 3 winter months | | | | | | 0.36 |
| Changing Filters in Baghouses | 3,000 Filters/yr | 0.08 | | | | | 0.0004* |
| Pump Preparation / Maintenance | 104 pumps/yr | | | | | 0.01 | 0.011** |

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| Work Activity | Schedule | Emission Rates - tons | | | | |
|--|-----------------|-----------------------|-----------------|-----------------|------|---------|
| | | PM ₁₀ | SO ₂ | NO _x | CO | VOC |
| Line Preparation | 208 lines/yr | | | | 0.05 | 0.055** |
| Storage Tank Cleaning for Inspection/Service | 5 tanks/yr | | | | 0.09 | 0.099** |
| Dust Vacuum Systems/Clean-up | 3,650 events/yr | 0.46 | | | | 0.0023* |

* Copper (and compounds).

** Hydrochloric Acid and/or Sulfuric Acid.

IX. Insignificant Activities

| ID No.: | Description | Physical/Operating Data | Citation |
|---------|-----------------------------------|-------------------------|------------------------|
| NA | Maintenance Drums | 55 gal. each | LAC 33:III.501.B.5.A.2 |
| NA | Tank ID 28932 | 991 gal. | LAC 33:III.501.B.5.A.3 |
| NA | Sodium Carbonate Feed Tank | 4,500 gal. | LAC 33:III.501.B.5.A.4 |
| NA | Sodium Carbonate Tank | 3,000 gal. | LAC 33:III.501.B.5.A.4 |
| NA | Sodium Aluminate Tank | 8,000 gal. | LAC 33:III.501.B.5.A.4 |
| NA | #2 Digester Sodium Aluminate Tank | 8,000 gal. | LAC 33:III.501.B.5.A.4 |
| NA | Sodium Aluminate Batch Tank | 12,000 gal. | LAC 33:III.501.B.5.A.4 |
| NA | Sodium Hydroxide Tank | 22,500 gal. | LAC 33:III.501.B.5.A.4 |
| NA | Kerosene Heater | 0.06 MMBtu/hr | LAC 33:III.501.B.5.A.5 |
| NA | QA/QC Laboratory Hoods | N/A | LAC 33:III.501.B.5.A.6 |
| NA | WM-01 Bobcat Welding Machine* | 0.051 MMBtu/hr | LAC 33:III.501.B.5.A.5 |
| NA | WM-02 Bobcat Welding Machine* | 0.051 MMBtu/hr | LAC 33:III.501.B.5.A.5 |
| NA | WM-03 Bobcat Welding Machine* | 0.051 MMBtu/hr | LAC 33:III.501.B.5.A.5 |

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| ID No.: | Description | Physical/Operating Data | Citation |
|---------|--------------------------------|-------------------------|-------------------------|
| NA | WM-04 Bobcat Welding Machine* | 0.051 MMBtu/hr | LAC 33:III.501.B.S.A.5. |
| NA | WM-05 Lincoln Welding Machine* | 0.076 MMBtu/hr | LAC 33:III.501.B.S.A.5. |
| NA | AC-01 Chicago Air Compressor* | 0.10 MMBtu/hr | LAC 33:III.501.B.S.A.5. |

* These items currently qualify as insignificant activities. Any replacement of these items by new engines that are affected sources under either NSPS IIII or JJJJ will require a permit modification and a removal of the sources from the insignificant activities list.

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

| ID No.: | Description | LAC 33:III Chapter | | | | | | | | | | | | | | | | |
|---------|---|--------------------|---|----|----|----|------|-------|------|------|------|------|------|----|-----|-----|-----|----|
| | | 5▲ | 9 | 11 | 13 | 15 | 2103 | 2104* | 2107 | 2113 | 2115 | 2131 | 2122 | 22 | 29* | 51* | 53* | 56 |
| UNF001 | Plant Wide | | 1 | 1 | 1 | 3 | | | | 1 | | | | 3 | 3 | 3 | 3 | 1 |
| EQT 9 | C-10 - Active B Process Points Dust Collector | | | | 1 | 1 | | | | | | | | | | | | |
| EQT 10 | C-102 - North AlCl3-HCl Tank | | | | | | | | | | | | | | | | | |
| EQT 11 | C-103 - South AlCl3-HCl Tank | | | | | | | | | | | | | | | | | |
| EQT 13 | C-105 - Sulfuric Acid Tank | | | | | | | | | | | | | | | | | |
| EQT 14 | C-106 - Soda Dope Tank | | | | | | | | | | | | | | | | | |
| EQT 15 | C-107 - Acetic Acid Tank | | | | | | | | | | | | | | | | | |
| EQT 16 | C-109 - Lime Bin Baghouse | | | | | | | | | | | | | | | | | |
| EQT 17 | C-111 - Gasoline Tank | | | | | | | | | | | | | | 2 | | | |
| EQT 18 | C-112 - Cooling Tower | | | | | | | | | | | | | | | | | |
| EQT 19 | C-113 - West Calcines Bins | | | | | | | | | | | | | | | | | |
| EQT 20 | C-114 - Versal I B Bin Vent Dust Collector | | | | | | | | | | | | | | | | | |

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|---------|--|--------------------|---|----|----|----|------|-------|------|------|------|------|------|----|-----|-----|-----|----|
| | | 5▲ | 9 | 11 | 13 | 15 | 2103 | 2104* | 2107 | 2113 | 2115 | 2131 | 2122 | 22 | 29* | 51* | 53* | 56 |
| EQT 21 | C-115 - Steam Boiler No. 2 | | | 1 | 1 | 3 | | | | | | | | | | | | |
| EQT 22 | C-16 - Active A Process Points Dust Collector | | | | 1 | 1 | | | | | | | | | | | | |
| EQT 23 | C-24 - Additives Bin Dust Collector | | | | | 1 | | | | | | | | | | | | |
| EQT 24 | C-36 - Versal I Loadout Dust Collector | | | | | 1 | | | | | | | | | | | | |
| EQT 25 | C-47 - Versal II Spray Dryer Dust Collector | | | | | 1 | | | | | | | | | | | | |
| EQT 26 | C-49A - Versal II Product Bin Dust Collector A | | | | | 1 | | | | | | | | | | | | |
| EQT 27 | C-49B - Versal II Product Bin Dust Collector B | | | | | - | | | | | | | | | | | | |
| EQT 28 | C-50 - Versal II Loadout Dust Collector | | | | | 1 | | | | | | | | | | | | |
| EQT 29 | C-52 - Package Steam Boiler | | | | | 1 | | | | | | | | | | | | |
| EQT 30 | C-55 - Cambelt Loadout Dust Collector | | | | | 1 | | | | | | | | | | | | |
| EQT 31 | C-57 - Pilot Plant Flash Calciner Dust Collector | | | | | 1 | | | | | | | | | | | | |

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| ID No.: | Description | LAC 33:III.Chapter | | | | | | | | | | | | | | | | |
|---------|---|--------------------|---|----|----|----|------|-------|------|------|------|------|----|-----|-----|-----|----|-----|
| | | 5▲ | 9 | 11 | 13 | 15 | 2103 | 2104* | 2107 | 2113 | 2115 | 2122 | 22 | 29* | 51* | 53* | 56 | 59* |
| EQT 33 | C-602 - HCl Solution Tank | | | | | | | | | | | | | | | | | |
| EQT 34 | C-604 - HCl Solution Tank | | | | | | | | | | | | | | | | | |
| EQT 35 | C-605 - HCl Solution Tank | | | | | | | | | | | | | | | | | |
| EQT 36 | C-606 - HCl Solution Tank | | | | | | | | | | | | | | | | | |
| EQT 37 | C-607 - HCl Solution Tank | | | | | | | | | | | | | | | | | |
| EQT 38 | C-608 - HCl Solution Tank | | | | | | | | | | | | | | | | | |
| EQT 39 | C-61 - Pilot Plant Spray Dryer Dust Collector | | | | | | | | | | | | | | | | | |
| EQT 40 | C-64 - Active A Nodulizer Feed Bin Dust Collector | | | | | | | | | | | | | | | | | |
| EQT 41 | C-7 - Versal I Product Bin Dust Collector | | | | | | | | | | | | | | | | | |
| EQT 43 | C-73 - Active Powder Flash Calciner Dust Collector | | | | | | | | | | | | | | | | | |
| EQT 46 | C-76 - Active Powder Hydrate Milling Dust Collector | | | | | | | | | | | | | | | | | |

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

| ID No.: | Description | LAC 33:III, Chapter | | | | | | | | | | | | | | | | | |
|---------|--|---------------------|---|----|----|----|------|-------|------|------|------|------|------|----|-----|-----|-----|----|-----|
| | | 5▲ | 9 | 11 | 13 | 15 | 2103 | 2104* | 2107 | 2113 | 2115 | 2131 | 2122 | 22 | 29* | 51* | 53* | 56 | 59* |
| EQT 47 | C-8 - Versal I Spray Dryer Dust Collector | | | | | | | | | | | | | | | | | | |
| EQT 48 | C-82 - Active Powder Hydrate Feed Dust Collector | | | | | | | | | | | | | | | | | | |
| EQT 49 | C-84 - Tank Farm Scrubber | | | | | | | | | | | | | | | | | | |
| EQT 50 | C-86 - West Hydrate Storage Bin Dust Collector | | | | | | | | | | | | | | | | | | |
| EQT 51 | C-98 - Active Powder Surge Bin Dust Collector | | | | | | | | | | | | | | | | | | |
| EQT 52 | C-99 - Active Powder South Flash Feed Bin Dust Collector | | | | | | | | | | | | | | | | | | |
| EQT 53 | C-116- Active B Bin Vent Dust Collector | | | | | | | | | | | | | | | | | | |
| FUG 1 | C-30 - Active B Fugitive Emissions | | | | | | | | | | | | | | | | | | |
| FUG 2 | C-33 - Versal I Plant Fugitive Emissions | | | | | | | | | | | | | | | | | | |
| FUG 3 | C-51 - Versal II Plant Fugitive Emissions | | | | | | | | | | | | | | | | | | |
| FUG 4 | C-68 - Active A Fugitive Emissions | | | | | | | | | | | | | | | | | | |

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| ID No.: | Description | LAC 33:III.Chapter | | | | | | | | | | | | | | | | | |
|---------|---|--------------------|---|----|----|----|------|-------|------|------|------|------|------|----|-----|-----|-----|----|-----|
| | | 5▲ | 9 | 11 | 13 | 15 | 2103 | 2104* | 2107 | 2113 | 2115 | 2131 | 2122 | 22 | 29* | 51* | 53* | 56 | 59* |
| FUG5 | C-83 - Active Powder Fugitive Emissions | | | | | 1 | | | | | | | | | | | | | |

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
 -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
 Blank – The regulations clearly do not apply to this type of emission source.

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Agency Interest No.: 1413

UOP LLC

Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

| ID No.: | Description | 40 CFR 60 NSPS | | | | | | | | | | 40 CFR 61 | | | | 40 CFR 63 NESHAP | | | | 40 CFR | | | |
|---------|---|----------------|----|----|----|----|----|-----|-----|-----|---|-----------|----|---|-----|------------------|----|-----|----|--------|----|--|--|
| | | K | Ka | Kb | Db | Dc | GG | UUU | III | JJJ | A | M | FF | A | HII | SS | VV | HHH | 51 | 64 | 68 | | |
| UNF001 | Plant Wide | | | | | | | | | | | | | | | | | | | | | | |
| EQT 09 | C-10 - Active B Process Points Dust Collector | | | | | | | | | | | | | | | | | | | | | | |
| EQT 10 | C-102 - North AlCl3-HCl Tank | | | | | | | | | | | | | | | | | | | | | | |
| EQT 11 | C-103 - South AlCl3-HCl Tank | | | | | | | | | | | | | | | | | | | | | | |
| EQT 13 | C-105 - Sulfuric Acid Tank | | | | | | | | | | | | | | | | | | | | | | |
| EQT 14 | C-106 - Soda Dope Tank | | | | | | | | | | | | | | | | | | | | | | |
| EQT 15 | C-107 - Acetic Acid Tank | | | | | | | | | | | | | | | | | | | | | | |
| EQT 16 | C-109 - Lime Bin Baghouse | | | | | | | | | | | | | | | | | | | | | | |
| EQT 17 | C-111 - Gasoline Tank | | | | | | | | | | | | | | | | | | | | | | |
| EQT 18 | C-112 - Cooling Tower | | | | | | | | | | | | | | | | | | | | | | |
| EQT 19 | C-113 - West Calcines Bins | | | | | | | | | | | | | | | | | | | | | | |
| EQT 20 | C-114 - Versal I B Bin Vent Dust Collector | | | | | | | | | | | | | | | | | | | | | | |

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UOP LLC - Baton Rouge Plant
Agency Interest No.: 1413
UOP LLC

Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

| ID No.: | Description | 40 CFR 60 NSPS | | | | | | 40 CFR 61 | | | | | | 40 CFR 63 NESHAP | | | | | | 40 CFR | | |
|---------|--|----------------|----|----|----|----|----|-----------|-----|-----|---|---|----|------------------|----|----|----|-----|----|--------|----|--|
| | | K | Ka | Kb | Db | Dc | GG | UUU | III | JJJ | A | M | FF | A | HH | SS | VV | HHH | 51 | 64 | 68 | |
| EQT 21 | C-115 - Steam Boiler No. 2 | | | | | | | | | | | | | | | | | | | | | |
| EQT 22 | C-16 - Active A Process Points Dust Collector | | | | | | | | | | | | | | | | | | | | | |
| EQT 23 | C-24 - Additives Bin Dust Collector | | | | | | | | | | | | | | | | | | | | | |
| EQT 24 | C-36 - Versal I Loadout Dust Collector | | | | | | | | | | | | | | | | | | | | | |
| EQT 25 | C-47 - Versal II Spray Dryer Dust Collector | | | | | | | | | | | | | | | | | | | | | |
| EQT 26 | C-49A - Versal II Product Bin Dust Collector A | | | | | | | | | | | | | | | | | | | | | |
| EQT 27 | C-49B - Versal II Product Bin Dust Collector B | | | | | | | | | | | | | | | | | | | | | |
| EQT 28 | C-50 - Versal II Loadout Dust Collector | | | | | | | | | | | | | | | | | | | | | |
| EQT 29 | C-52 - Package Steam Boiler | | | | | | | | | | | | | | | | | | | | | |
| EQT 30 | C-55 - Cambelt Loadout Dust Collector | | | | | | | | | | | | | | | | | | | | | |

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UOP LLC - Baton Rouge Plant
 Agency Interest No.: 1413
 UOP LLC

Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

| ID No.: | Description | 40 CFR 60 NSPS | | | | | | | | | | 40 CFR 63 NEHAP | | | | | 40 CFR | | | | |
|---------|---|----------------|----|----|----|----|----|-----|-----|-----|---|-----------------|----|---|-----|----|--------|-------|----|----|----|
| | | K | Ka | Kb | Db | Dc | GG | UUU | III | JJJ | A | M | FF | A | HII | SS | VV | III+H | 51 | 64 | 68 |
| EQT 31 | C-57 - Pilot Plant Flash Calciner Dust Collector | | | | | | | | | | | | | | | | | | 3 | | |
| EQT 33 | C-602 - HCl Solution Tank | | | | | | | | | | | | | | | | | | | | |
| EQT 34 | C-604 - HCl Solution Tank | | | | | | | | | | | | | | | | | | | | |
| EQT 35 | C-605 - HCl Solution Tank | | | | | | | | | | | | | | | | | | | | |
| EQT 36 | C-606 - HCl Solution Tank | | | | | | | | | | | | | | | | | | | | |
| EQT 37 | C-607 - HCl Solution Tank | | | | | | | | | | | | | | | | | | | | |
| EQT 38 | C-608 - HCl Solution Tank | | | | | | | | | | | | | | | | | | | | |
| EQT 39 | C-61 - Pilot Plant Spray Dryer Dust Collector | | | | | | | | | | | | | | | | | | 3 | | |
| EQT 40 | C-64 - Active A Nodulizer Feed Bin Dust Collector | | | | | | | | | | | | | | | | | | 3 | | |
| EQT 41 | C-7 - Versal I Product Bin Dust Collector | | | | | | | | | | | | | | | | | | 1 | | |
| EQT 43 | C-73 - Active Powder Flash Calciner Dust Collector | | | | | | | | | | | | | | | | | | 1 | | |

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UOP LLC - Baton Rouge Plant
Agency Interest No.: 1413

UOP LLC

Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

| ID No.: | Description | 40 CFR 60 NSPS | | | | | | 40 CFR 61 | | | | | | 40 CFR 63 NESHAP | | | | | | 40 CFR | |
|---------|--|----------------|----|----|----|----|----|-----------|-----|-----|---|---|----|------------------|----|----|----|-----|----|--------|----|
| | | K | Ka | Kb | Db | Dc | GG | UUU | III | JJJ | A | M | FF | A | HH | SS | VV | HHH | 51 | 64 | 68 |
| EQT 46 | C-76 - Active Powder Hydrate Milling Dust Collector | | | | | | | | | | | | | | | | | | | | |
| EQT 47 | C-8 - Versal I Spray Dryer Dust Collector | | | | | | | | | | | | | | | | | | | | 3 |
| EQT 48 | C-82 - Active Powder Hydrate Feed Dust Collector | | | | | | | | | | | | | | | | | | | | 1 |
| EQT 49 | C-84 - Tank Farm Scrubber | | | | | | | | | | | | | | | | | | | | 3 |
| EQT 50 | C-86 - West Hydrate Storage Bin Dust Collector | | | | | | | | | | | | | | | | | | | | 3 |
| EQT 51 | C-98 - Active Powder Surge Bin Dust Collector | | | | | | | | | | | | | | | | | | | | 3 |
| EQT 52 | C-99 - Active Powder South Flash Feed Bin Dust Collector | | | | | | | | | | | | | | | | | | | | 3 |
| EQT 53 | C-116- Active B Bin Vent Dust Collector | | | | | | | | | | | | | | | | | | | | 3 |
| FUG 1 | C-30 - Active B Fugitive Emissions | | | | | | | | | | | | | | | | | | | | |
| FUG 2 | C-33 - Versal I Plant Fugitive Emissions | | | | | | | | | | | | | | | | | | | | 3 |
| FUG 3 | C-51 - Versal II Plant Fugitive Emissions | | | | | | | | | | | | | | | | | | | | 3 |

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UOP LLC - Baton Rouge Plant
Agency Interest No.: 1413
UOP LLC

Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

| ID No.: | Description | 40 CFR 60 NSPS | | | | | | 40 CFR 61 | | | | | | 40 CFR 63 NESHAP | | | | | | 40 CFR | | |
|---------|---|----------------|----|----|----|----|----|-----------|-----|-----|---|---|----|------------------|----|----|----|-----|----|--------|----|--|
| | | K | Ka | Kb | Db | Dc | GG | UUU | III | JJJ | A | M | FF | A | HH | SS | VV | HHH | 51 | 64 | 68 | |
| FUG 4 | C-68 - Active A Fugitive Emissions | | | | | | | | | | | | | | | | | | | | | |
| FUG 5 | C-83 - Active Powder Fugitive Emissions | | | | | | | | | | | | | | | | | | | | | |

KEY TO MATRIX

- The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
- Blank - The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UOP LLC - Baton Rouge Plant
Agency Interest No.: 1413
UOP LLC
Baton Rouge, East Baton Rouge Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

| ID No: | Requirement | Notes |
|--------------------------|---|--|
| | Prevention of Significant Deterioration 40 CFR 51 / LAC 33:III.509 and Non-Attainment New Source Review LAC 33:III.504. | DOES NOT APPLY - The requested modifications to this permit have no associated PSD (NNSR) regulated pollutant significant emission increases. |
| | Prevention and Minimization of Consequences (LAC 33:III.Chapter 59 / 40 CFR 68) | EXEMPT - No regulated substances above the applicable thresholds. [LAC 33:III. Chapter 59 / 40 CFR 68] |
| UNF001 – Entire Facility | NSPS Subpart UUU – Standards of Performance for Calciners and Dryers in Mineral Industries [40 CFR 60.730] | DOES NOT APPLY – Per LDEQ applicability determination based on the applicability determination letter by EPA on 9/12/1996 for UOP, LLC Shreveport Plant. |
| | Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (NSPS Subpart III) | EXEMPT - No diesel-fired engines with manufacture date after the applicability date(s) of this regulation. [40 CFR 60.4200] |
| | Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (NSPS Subpart JJJ) | EXEMPT - No stationary spark ignition internal combustion engines with manufacture date after the applicability date(s) of this regulation or with a modification/reconstruction after the applicability date(s) of this regulation. [40 CFR 60.4200] |

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UOP LLC - Baton Rouge Plant
 Agency Interest No.: 1413
 UOP LLC
 Baton Rouge, East Baton Rouge Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

| ID No: | Requirement | Notes |
|--------------------------------------|--|--|
| | Standards for Benzene Waste Operations (NESHAP Subpart FF) | EXEMPT - Total mass of benzene in facility waste is less than 1 Mg/yr. In accordance with 40 CFR 61.357, an initial report was submitted to the EPA in April 1993 that summarized the regulatory status of each waste stream subject to 61.342. [40 CFR 61.340] |
| | Emission Standard for Sulfur Dioxide (LAC 33:III.1502) | DOES NOT APPLY - There are no single point sources included in this permit application that emit or have the potential to emit 5 tpy or more of sulfur dioxide. [LAC 33:III.1502.A.3] |
| | Volatile Organic Compounds – Loading (LAC 33:III.2107) | DOES NOT APPLY - The vapor pressure of organics at loading conditions is less than 1.5 psia. [LAC 33:III.2107.A.1] |
| UNF001 – Entire Facility [Continued] | Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parishes [LAC 33:III.2122] | DOES NOT APPLY - The UOP Baton Rouge Plant is not an affected facility. [LAC 33:III.2122.A.1] |
| | Control of Emissions of Nitrogen Oxides (NOx). [LAC 33:III. Chapter 22] | DOES NOT APPLY - The UOP Baton Rouge Plant is not an affected facility because it has no affected point sources per LAC 33:III.2201.B] |
| | Comprehensive Toxic Air Pollutant Emission Control Program. [LAC 33:III. Chapter 51] | DOES NOT APPLY - The UOP Baton Rouge Plant is not a major source of Louisiana Toxic Air Pollutants. |

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UOP LLC - Baton Rouge Plant
 Agency Interest No.: 1413
UOP LLC

Baton Rouge, East Baton Rouge Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

| ID No: | Requirement | Notes |
|--|---|--|
| | Control of Emissions of Organic Compounds [LAC 33:III.2103] | DOES NOT APPLY - Storage tank material has a true vapor pressure less than 1.5 psia. [LAC 33:III.2103.A] |
| EQT 14 & 15 C-106 Soda Dope Tank & C-107-Acetic Acid Tank | NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. [40 CFR 60.110b]) | DOES NOT APPLY – Storage tank material has a true vapor pressure less than 2.2 psia. [40 CFR 60.110b] |
| EQT 17 C-111-Gasoline Tank | Control of Emissions of Organic Compounds Subchapter F Gasoline Handling [LAC 33:III.2131] | EXEMPT - Storage tank throughput is less than 120,000 gallons. [LAC 33:III.2131.D.3] |
| EQT 21 & 29 – C-115 Steam Boiler No. 2 & C-52 – Package Steam Boiler | Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60, Subpart Dc] | DOES NOT APPLY – Both boilers were built before 6/9/89. No construction, modification or reconstruction has occurred. [40 CFR 60.40c(a)] |
| EQTs 16, 20, 23, 24, 28, 30, 31, 39, 40, 46, 48, 49, 51, 52, and 53; C109, C-114, C-24, C-36, C50, C-55, C-57, C-61, C- 64, C-76, C-82, C-84, C-98, C-99, and C-116. | Compliance Assurance Monitoring (CAM) [40 CFR 64] | DOES NOT APPLY – Pre-control emission from the unit is below the significance level. [40 CFR 64.2(a)(3)] |

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UOP LLC - Baton Rouge Plant
 Agency Interest No.: 1413
 UOP LLC

Baton Rouge, East Baton Rouge Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

| ID No: | Requirement | Notes |
|---|---|---|
| EQT 21 – C-115- Steam Boiler No. 2, EQT 25- C-47 – Versal II Spray Dryer Dust Collector, EQT 29 – C-52 – Package Steam Boiler, EQT 31 – C-57 – Pilot Plant Flash Calciner Dust Collector, EQT 39 – C-61 – Pilot Plant Spray Calciner Dust Collector, EQT 43 – C-73 – Active Powder Flash Calciner Dust Collector, and EQT 47 – C-8 - Versal I Spray Dryer Dust Collector | LAC 33:II.Chapter 15. Emission Standards for Sulfur Dioxide. | DOES NOT APPLY – No point source at the plant emits or has the potential to emit 5 tons per year or more of sulfur dioxide. [LAC 33:II.1502.A.3] |

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

General Information

AI ID: 1413 UOP LLC - Baton Rouge Plant
 Activity Number: PER20090005
 Permit Number: 0840-00009-V1
 Air - Title V Regular Permit Renewal!

| Also Known As: | ID | Name | Start Date |
|-------------------------|---|---|-------------------------|
| | 0840-00009 | CDS Number | 07-19-1995 |
| 7228911 | | EPA EIS Facility Site ID | 01-01-2008 |
| 36-3594439 | | Federal Tax ID | 11-03-2000 |
| LAD985170760 | | UOP LLC (formerly Laroche) | 03-15-1990 |
| LA0041718 | | WPC File Number | 05-22-2003 |
| WP0581 | | WPC State Permit Number | 06-25-2003 |
| WP0622 | | WPC State Permit Number | 06-25-2003 |
| 2288 | | Priorily 2 Emergency Site | 07-19-2006 |
| GD-033-3209 | | X-Ray Registration Number | 11-21-1999 |
| 19532 | | Site ID # | 11-21-1999 |
| 34640 | | Kaiser Aluminum & Chemical Corp | 12-09-2001 |
| 708051LRCHCAIRL | | UOP LLC | 05-27-2001 |
| | | TRI # | Toxic Release Inventory |
| | | | 07-09-2004 |
| Physical Location: | | Main Phone: | 2253568532 |
| Mailing Address: | 1200 Airline Hwy Baton Rouge, LA 70805 | | |
| Location of Front Gate: | 30.507039 latitude, -91.185731 longitude, Coordinate Method: Lat/Long. - DMS, Coordinate Datum: NAD83 | | |
| Related People: | Name | Mailing Address | Phone (Type) |
| Philip Addy | | 1200 Airline Hwy, Baton Rouge, LA 70805 | 2253568408 (WP) |
| Philip Addy | | 1200 Airline Hwy, Baton Rouge, LA 70805 | PHILIP.ADDY@UOP |
| Philip Addy | | 1200 Airline Hwy, Baton Rouge, LA 70805 | 2253568408 (WF) |
| Philip Addy | | 1200 Airline Hwy, Baton Rouge, LA 70805 | PHILIP.ADDY@UOP |
| James Cline | | 1200 Airline Hwy, Baton Rouge, LA 70805 | 2253568532 (WP) |
| Ronald Dodge | | 1200 Airline Hwy, Baton Rouge, LA 70805 | 2253568502 (WP) |
| Keith Miller | | 1200 Airline Hwy, Baton Rouge, LA 70805 | keith.miller1@uop.cc |
| Keith Miller | | 1200 Airline Hwy, Baton Rouge, LA 70805 | 2253568502 (WF) |
| Keith Miller | | 1200 Airline Hwy, Baton Rouge, LA 70805 | keith.miller1@uop.cc |
| Mary Powell | | 1200 Airline Hwy, Baton Rouge, LA 70805 | 2253568532 (WF) |
| Related Organizations: | Name | Address | Relationship |

General Information

AI ID: 1413 UOP LLC - Baton Rouge Plant
 Activity Number: PER20090005
 Permit Number: 0840-00009-V1
 Air - Title V Regular Permit Renewal

| Related Organizations: | Name | Address | Phone (Type) | Relationship |
|------------------------|------------------|-----------------------|-----------------|--|
| UOP LLC | 1200 Airline Hwy | Baton Rouge, LA 70805 | 2253568502 (WP) | Operates |
| UOP LLC | 1200 Airline Hwy | Baton Rouge, LA 70805 | 2253568502 (WP) | Owns |
| UOP LLC | 1200 Airline Hwy | Baton Rouge, LA 70805 | 2253568502 (WP) | Radiation Registration Billing Party for |
| UOP LLC | 1200 Airline Hwy | Baton Rouge, LA 70805 | 2253568502 (WP) | Emission Inventory Billing Party |
| UOP LLC | 1200 Airline Hwy | Baton Rouge, LA 70805 | 2253568502 (WP) | Air Billing Party for |
| UOP LLC | 1200 Airline Hwy | Baton Rouge, LA 70805 | 2253568502 (WP) | Accident Prevention Billing Party for |
| UOP LLC | 1200 Airline Hwy | Baton Rouge, LA 70805 | 2253568502 (WP) | Water Billing Party for |

NAIC Codes:
 325188. All Other Basic Inorganic Chemical Manufacturing

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit.
 Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms.
 Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 1413 - UOP LLC - Baton Rouge Plant
Activity Number: PER20090005
Permit Number: 0840-00009-V1
Air - Title V Regular Permit Renewal

Subject Item Inventory:

| ID | Description | Tank Volume | Max. Operating Rate | Normal Operating Rate | Contents | Operating Time |
|------------------------|---|----------------|---------------------|-----------------------|---|----------------|
| Entire Facility | | | | | | |
| EQT 0009 | C-10 - Active B Process Points Dust Collector | 9.9 MM gallons | 9.9 MM BTU/hr | 6.6 MM BTU/hr | 1,200 hours with copper additive | 8232 hr/yr |
| EQT 0010 | C-102 - North AlCl3-HCl Tank | 25000 gallons | 170 gallons/min | 4.75 MM gallons/yr | Hydrochloric acid | 8760 hr/yr |
| EQT 0011 | C-103 - South AlCl3-HCl Tank | 25000 gallons | 170 gallons/min | 4.75 MM gallons/yr | Hydrochloric acid | 8760 hr/yr |
| EQT 0013 | C-105 - Sulfuric Acid Tank | 600 gallons | 170 gallons/min | 1500 gallons/yr | Sulfuric acid | 8760 hr/yr |
| EQT 0014 | C-106 - Soda Dope Tank | 25000 gallons | 170 gallons/min | 1.4 MM gallons/yr | VOC | 8760 hr/yr |
| EQT 0015 | C-107 - Acetic Acid Tank | 25000 gallons | 170 gallons/min | 200000 MM gallons/yr | VOC | 8760 hr/yr |
| EQT 0016 | C-109 - Lime Bin Baghouse | | | 1200 ft^3/min | | 70 hr/yr |
| EQT 0017 | C-111 - Gasoline Tank | 1000 gallons | 170 gallons/min | 2000 gallons/yr | Gasoline | 8760 hr/yr |
| EQT 0018 | C-112 - Cooling Tower | | | 250 gallons/min | | 8760 hr/yr |
| EQT 0019 | C-113 - West Calcines Bins | | | 2180 ft^3/min | | 8760 hr/yr |
| EQT 0020 | C-114 - Versal I B Bin Vent Dust Collector | | | 800 ft^3/min | | 8760 hr/yr |
| EQT 0021 | C-115 - Steam Boiler No. 2 | | | 12.9 MM BTU/hr | 8.6 MM BTU/hr | 8760 hr/yr |
| EQT 0022 | C-16 - Active A Process Points Dust Collector | | | 9 MM BTU/hr | 6 MM BTU/hr | 8760 hr/yr |
| EQT 0023 | C-24 - Additives Bin Dust Collector | | | 800 ft^3/min | 1200 hours with copper additive | 3640 hr/yr |
| EQT 0024 | C-36 - Versal I Loadout Dust Collector | | | 2500 ft^3/min | | 700 hr/yr |
| EQT 0025 | C-47 - Versal II Spray Dryer Dust Collector | | | 45 MM BTU/hr | 30 MM BTU/hr | 8060 hr/yr |
| EQT 0026 | C-49A - Versal II Product Bin Dust Collector A | | | 650 ft^3/min | | 8060 hr/yr |
| EQT 0027 | C-49B - Versal II Product Bin Dust Collector B | | | 650 ft^3/min | | 8060 hr/yr |
| EQT 0028 | C-50 - Versal II Loadout Dust Collector | | | 2500 ft^3/min | | 700 hr/yr |
| EQT 0029 | C-52 - Package Steam Boiler | | | 25.2 MM BTU/hr | 16.8 MM BTU/hr | 8568 hr/yr |
| EQT 0030 | C-55 - Cambelt Loadout Dust Collector | | | 1600 ft^3/min | | 500 hr/yr |
| EQT 0031 | C-57 - Pilot Plant Flash Calciner Dust Collector | | | 1.5 MM BTU/hr | 1 MM BTU/hr | 168 hr/yr |
| EQT 0033 | C-602 - HCl Solution Tank | 25000 gallons | 13 MM gallons/yr | 1.86 MM gallons/yr | Max. Op rate is combined throughput for all 7 tanks | 8760 hr/yr |
| EQT 0034 | C-604 - HCl Solution Tank | 25000 gallons | 13 MM gallons/yr | 1.86 MM gallons/yr | Max. Op rate is combined throughput for all 7 tanks | 8760 hr/yr |
| EQT 0035 | C-605 - HCl Solution Tank | 25000 gallons | 13 MM gallons/yr | 1.86 MM gallons/yr | Max. Op rate is combined throughput for all 7 tanks | 8760 hr/yr |
| EQT 0036 | C-606 - HCl Solution Tank | 25000 gallons | 13 MM gallons/yr | 1.86 MM gallons/yr | Max. Op rate is combined throughput for all 7 tanks | 8760 hr/yr |
| EQT 0037 | C-607 - HCl Solution Tank | 25000 gallons | 13 MM gallons/yr | 1.86 MM gallons/yr | Max. Op rate is combined throughput for all 7 tanks | 8760 hr/yr |
| EQT 0038 | C-608 - HCl Solution Tank | 25000 gallons | 13 MM gallons/yr | 1.86 MM gallons/yr | Max. Op rate is combined throughput for all 7 tanks | 8760 hr/yr |
| EQT 0039 | C-61 - Pilot Plant Spray Dryer Dust Collector | | | .6 MM BTU/hr | 4 MM BTU/hr | 168 hr/yr |
| EQT 0040 | C-64 - Active A Nodulizer Feed Bin Dust Collector | | | 800 ft^3/min | | 1750 hr/yr |
| EQT 0041 | C-7 - Active B Product Bin Dust Collector | | | 1745 ft^3/min | | 8060 hr/yr |
| EQT 0043 | C-73 - Active Powder Flash Calciner Dust Collector | | | 37.5 MM BTU/hr | 25 MM BTU/hr | 8760 hr/yr |
| EQT 0046 | C-76 - Active Powder Hydrate Milling Dust Collector | | | 9000 ft^3/min | | 8232 hr/yr |
| EQT 0047 | C-8 - Versal I Spray Dryer Dust Collector | | | 33 MM BTU/hr | 22 MM BTU/hr | 8060 hr/yr |

INVENTORIES

AID: 1413 - UOP LLC - Baton Rouge Plant
 Activity Number: PER20090005
 Permit Number: 0840-00009-V1
 Air - Title V Regular Permit Renewal

Subject Item Inventory:

| ID | Description | Tank Volume | Max. Operating Rate | Normal Operating Rate | Contents | Operating Time |
|----|-------------|-------------|---------------------|-----------------------|----------|----------------|
|----|-------------|-------------|---------------------|-----------------------|----------|----------------|

Entire Facility

| | | | | | | |
|----------|--|------------------|---------------------------------|--|--|------------|
| EQT 0048 | C-82 - Active Powder Hydrate Feed Dust Collector | 13 MM gallons/yr | 800 ft^3/min | | | 910 hr/yr |
| EQT 0049 | C-84 - Tank Farm Scrubber | | | | | 8760 hr/yr |
| EQT 0050 | C-86 West Hydrate Storage Bin Dust Collector | | 3000 ft^3/min | | | 7896 hr/yr |
| EQT 0051 | C-98 - Active Powder Surge Bin Dust Collector | | 650 ft^3/min | | | 8232 hr/yr |
| EQT 0052 | C-99 - Active Powder South Flash Feed Bin Dust Collector | | 1000 ft^3/min | | | 8232 hr/yr |
| EQT 0053 | C-116 - Active B Bin Vent Dust Collector | | 4186 ft^3/min | | | 8760 hr/yr |
| FUG 0001 | C-30 - Active B Fugitive Emissions | | 1200 hours with copper additive | | | 8760 hr/yr |
| FUG 0002 | C-33 - Versat I Plant Fugitive Emissions | | Not applicable | | | 8760 hr/yr |
| FUG 0003 | C-51 - Versat II Plant Fugitive Emissions | | Not applicable | | | 8760 hr/yr |
| FUG 0004 | C-68 - Active A Fugitive Emissions | | Not applicable | | | 8760 hr/yr |
| FUG 0005 | C-83 - Active Powder Fugitive Emissions | | Not applicable | | | 8760 hr/yr |

Stack Information:

| ID | Description | Velocity (ft/sec) | Flow Rate (cubic ft/min-actual) | Diameter (feet) | Discharge Area (square feet) | Height (feet) | Temperature (°F) |
|------------------------|--|-------------------|---------------------------------|-----------------|------------------------------|---------------|------------------|
| Entire Facility | | | | | | | |
| EQT 0009 | C-10 - Active B Process Points Dust Collector | 86 | 54500 | 3.67 | | 110 | 312 |
| EQT 0010 | C-102 - North AlCl3-HCl Tank | 0 | 0 | .5 | | 29 | 80 |
| EQT 0011 | C-103 - South AlCl3-HCl Tank | 0 | 0 | .5 | | 29 | 80 |
| EQT 0013 | C-105 - Sulfuric Acid Tank | 0 | 0 | 16 | | 6 | 80 |
| EQT 0014 | C-106 - Soda Dope Tank | 0 | 0 | 25 | | 29 | 80 |
| EQT 0015 | C-107 - Acetic Acid Tank | 0 | 0 | 25 | | 29 | 80 |
| EQT 0016 | C-109 - Lime Bin Baghouse | 24 | 1200 | | 84 | 20 | 125 |
| EQT 0017 | C-111 - Gasoline Tank | 0 | 0 | 16 | | 10 | 80 |
| EQT 0018 | C-112 - Cooling Tower | 2.94 | 45000 | 18 | | 30 | 80 |
| EQT 0019 | C-113 - West Calcines Bins | 145 | 2180 | 25 | | 60 | 125 |
| EQT 0020 | C-114 - Versat I B Bin Vent Dust Collector | 12.4 | 800 | 1.17 | | 60 | 80 |
| EQT 0021 | C-115 - Steam Boiler No 2 | 33 | 6240 | 2 | | 30 | 450 |
| EQT 0022 | C-16 - Active A Process Points Dust Collector | 67 | 24104 | | 6 | 70 | 344 |
| EQT 0023 | C-24 - Additives Bin Dust Collector | 24 | 800 | | 56 | 105 | 80 |
| EQT 0024 | C-36 - Versat I Loadout Dust Collector | 118 | 2500 | .67 | | 90 | 80 |
| EQT 0025 | C-47 - Versat II Spray Dyer Dust Collector | 102 | 40637 | .292 | | 65 | 244 |
| EQT 0026 | C-49A - Versat II Product Bin Dust Collector A | 55 | 650 | .5 | | 60 | 140 |
| EQT 0027 | C-49B - Versat II Product Bin Dust Collector B | 55 | 650 | .5 | | 60 | 140 |

INVENTORIES

AI ID: 1413 - UOP LLC - Baton Rouge Plant
 Activity Number: PER20090005
 Permit Number: 0840-00009-V1
 Air - Title V Regular Permit Renewal

Stack Information:

| ID | Description | Velocity (ft/sec) | Flow Rate (cubic ft/min-actual) | Diameter (feet) | Discharge Area (square feet) | Height (feet) | Temperature (°F) |
|------------------------|--|-------------------|---------------------------------|-----------------|------------------------------|---------------|------------------|
| Entire Facility | | | | | | | |
| EQT 0028 | C-50 - Versal II Loadout Dust Collector | 80 | 2500 | .83 | | 42 | 80 |
| EQT 0029 | C-52 - Package Steam Boiler | 33 | 6240 | 2 | | 30 | 450 |
| EQT 0030 | C-55 - Cambelt Loadout Dust Collector | 76 | 1600 | .67 | | 12 | 80 |
| EQT 0031 | C-57 - Pilot Plant Flash Calciner Dust Collector | 133 | 2816 | .67 | | 24 | 300 |
| EQT 0039 | C-61 - Pilot Plant Spray Dryer Dust Collector | 57 | 675 | .5 | | 24 | 300 |
| EQT 0040 | C-64 - Active A Nodulizer Feed Bin Dust Collector | 68 | 800 | .5 | | 60 | 80 |
| EQT 0041 | C-7 - Versal II Product Bin Dust Collector | 27 | 1745 | | 1.08 | 90 | 80 |
| EQT 0043 | C-73 - Active Powder Flash Calciner Dust Collector | 104 | 69000 | .375 | | 60 | 320 |
| EQT 0046 | C-76 - Active Powder Hydrate Milling Dust Collector | 75 | 9000 | | 2.01 | 84 | 80 |
| EQT 0047 | C-8 - Versal I Spray Dryer Dust Collector | 55 | 31500 | .35 | | 86 | 296 |
| EQT 0048 | C-82 - Active Powder Hydrate Feed Dust Collector | 17 | 800 | 1 | | 60 | 80 |
| EQT 0049 | C-84 - Tank Farm Scrubber | 6 | 200 | .83 | | 39 | 80 |
| EQT 0050 | C-86 - West Hydrate Storage Bin Dust Collector | 64 | 3000 | 1 | | 92 | 80 |
| EQT 0051 | C-98 - Active Powder Surge Bin Dust Collector | 31 | 650 | .67 | | 90 | 123 |
| EQT 0052 | C-99 - Active Powder South Flash Feed Bin Dust Collector | 31 | 1000 | .83 | | 76 | 80 |
| EQT 0053 | C-116 - Active B Bin Vent Dust Collector | 128 | 4186 | .83 | | 60 | 125 |
| FUG 0001 | C-30 - Active B Fugitive Emissions | | | | | | 77 |
| FUG 0002 | C-33 - Versal I Plant Fugitive Emissions | | | | | | 77 |
| FUG 0003 | C-51 - Versal II Plant Fugitive Emissions | | | | | | 77 |
| FUG 0004 | C-68 - Active A Fugitive Emissions | | | | | | 77 |
| FUG 0005 | C-83 - Active Powder Fugitive Emissions | | | | | | 77 |
| GRP 0003 | C-49 CAP - Versal II Product Bin Dust Collector CAP | | | | | | |

Relationships:

| ID | Description | Relationship | ID | Description |
|----------|---------------------------|--------------|----------|---------------------------|
| EQT 0033 | C-602 - HCl Solution Tank | Vents to | EQT 0049 | C-84 - Tank Farm Scrubber |
| EQT 0034 | C-604 - HCl Solution Tank | Vents to | EQT 0049 | C-84 - Tank Farm Scrubber |
| EQT 0035 | C-605 - HCl Solution Tank | Vents to | EQT 0049 | C-84 - Tank Farm Scrubber |
| EQT 0036 | C-606 - HCl Solution Tank | Vents to | EQT 0049 | C-84 - Tank Farm Scrubber |
| EQT 0037 | C-607 - HCl Solution Tank | Vents to | EQT 0049 | C-84 - Tank Farm Scrubber |
| EQT 0038 | C-608 - HCl Solution Tank | Vents to | EQT 0049 | C-84 - Tank Farm Scrubber |

INVENTORIES

AI ID: 1413 - UOP LLC - Baton Rouge Plant
 Activity Number: PER20090005
 Permit Number: 0840-00009-V1
 Air - Title V Regular Permit Renewal

Subject Item Groups:

| ID | Group Type | Group Description |
|----------|---------------------------|---|
| CRG 0001 | Common Requirements Group | BH-CO-ST-CAM - Baghouse/Combustion/CStack Test/AM REQTs |
| CRG 0002 | Common Requirements Group | BH-CO-GL - Baghouse/Combustion/Grain Loading/REQTs |
| CRG 0003 | Common Requirements Group | BH-ST-CAM - Baghouse/Stack Test/CAM |
| CRG 0004 | Common Requirements Group | BH-GL/CAM - Baghouse/Grain Loading/CAM REQTs |
| CRG 0005 | Common Requirements Group | BH-ST - Baghouse/Stack Test REQTs |
| CRG 0006 | Common Requirements Group | BH-GL - Baghouse/Grain Loading REQTs |
| GRP 0003 | Equipment Group | C-49 CAP - Versal II Product Bin Dust Collector CAP |
| UNF 0001 | Unit or Facility Wide | UNF001 - Entire Facility |

Group Membership:

| ID | Description | Member of Groups |
|----------|--|----------------------------------|
| EQT 0009 | C-10 - Active B Process Points Dust Collector | CRG000000000001 |
| EOT 0016 | C-109 - Lime Bin Baghouse | CRG000000000006 |
| EOT 0019 | C-113 - West Calciner Bins | CRG000000000004 |
| EOT 0020 | C-114 - Versal I B Bin Vent Dust Collector | CRG000000000005 |
| EOT 0022 | C-16 - Active A Process Points Dust Collector | CRG000000000001 |
| EOT 0023 | C-18 - Active A Process Points Dust Collector | CRG000000000006 |
| EOT 0024 | C-24 - Additives Bin Dust Collector | CRG000000000006 |
| EOT 0025 | C-36 - Versal I Loadout Dust Collector | CRG000000000001 |
| EOT 0026 | C-47 - Versal II Spray Dryer Dust Collector | CRG000000000003, GRP000000000003 |
| EQT 0027 | C-49A - Versal II Product Bin Dust Collector A | CRG000000000003, GRP000000000003 |
| EOT 0028 | C-49B - Versal II Product Bin Dust Collector B | CRG000000000006 |
| EOT 0029 | C-50 - Versal II Loadout Dust Collector | CRG000000000006 |
| EOT 0030 | C-55 - Cambell Loadout Dust Collector | CRG000000000002 |
| EOT 0031 | C-57 - Pilot Plant Flash Calciner Dust Collector | CRG000000000002 |
| EOT 0039 | C-61 - Pilot Plant Spray Drier Dust Collector | CRG000000000002 |
| EOT 0040 | C-64 - Active A Nodulizer Feed Bin Dust Collector | CRG000000000006 |
| EQT 0041 | C-7 - Versal I Product Bin Dust Collector | CRG000000000003 |
| EOT 0043 | C-73 - Active Powder Flash Calciner Dust Collector | CRG000000000001 |
| EOT 0046 | C-76 - Active Powder Hydrate Milling Dust Collector | CRG000000000005 |
| EOT 0047 | C-8 - Versal I Spray Dryer Dust Collector | CRG000000000001 |
| EOT 0048 | C-82 - Active Powder Hydrate Feed Dust Collector | CRG000000000005 |
| EOT 0050 | C-86 - West Hydrate Storage Bin Dust Collector | CRG000000000004 |
| EOT 0051 | C-98 - Active Powder Surge Bin Dust Collector | CRG000000000005 |
| EOT 0052 | C-99 - Active Powder South Flash Feed Bin Dust Collector | CRG000000000005 |
| EOT 0053 | C-116 - Active B Bin Vent Dust Collector | CRG000000000006 |

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

INVENTORIES

AI ID: 1413 - UOP LLC - Baton Rouge Plant
 Activity Number: PER20090005
 Permit Number: 0840-00009-V1
 Air - Title V Regular Permit Renewal

Annual Maintenance Fee:

| Fee Number | Air Contaminant Source (Rated Capacity) | Multiplier | Units Of Measure |
|------------|--|------------|------------------|
| 0470 | 0470 Alumina (Rated Capacity) | 116 | MM lbs/yr |

SIC Codes:

| | | |
|------|-------------------------------------|---------|
| 2819 | Industrial inorganic chemicals, nec | AI 1413 |
| 2819 | Industrial inorganic chemicals, nec | UNF 001 |

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1413 - UOP LLC - Baton Rouge Plant
 Activity Number: PER20090005
 Permit Number: 0840-00009-V1
 Air - Title V Regular Permit Renewal

| Subject Item | CO | | | NOx | | | PM10 | | | SO2 | | | VOC | | |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Avg lb/hr | Max lb/hr | Tons/Year |
| Entire Facility | | | | | | | | | | | | | | | |
| EQT 0009 C-10 | 0.54 | 0.82 | 2.24 | 0.65 | 0.97 | 2.66 | 2.96 | 4.44 | 12.18 | <0.01 | 0.01 | 0.02 | 0.04 | 0.05 | 0.15 |
| EQT 0014 C-106 | | | | | | | | | | | | | 0.01 | 0.56 | 0.06 |
| EQT 0015 C-107 | | | | | | | | | | | | | 0.03 | 4.23 | 0.11 |
| EQT 0016 C-109 | | | | | | | | | | 0.21 | 0.31 | 0.01 | | | |
| EQT 0017 C-111 | | | | | | | | | | | | | 0.08 | 3.77 | 0.33 |
| EQT 0018 C-112 | | | | | | | | | | 0.01 | 0.02 | 0.06 | | | |
| EQT 0019 C-113 | | | | | | | | | | 0.37 | 0.56 | 1.64 | | | |
| EQT 0020 C-114 | | | | | | | | | | 0.08 | 0.12 | 0.34 | | | |
| EQT 0021 C-115 | 0.71 | 1.06 | 3.10 | 0.84 | 1.27 | 3.69 | 0.06 | 0.10 | 0.28 | 0.01 | 0.01 | 0.02 | 0.05 | 0.07 | 0.20 |
| EQT 0022 C-16 | 0.49 | 0.74 | 2.16 | 0.59 | 0.88 | 2.58 | 1.31 | 1.96 | 5.73 | <0.01 | 0.01 | 0.02 | 0.03 | 0.05 | 0.14 |
| EQT 0023 C-24 | | | | | | | | | | 0.14 | 0.21 | 0.25 | | | |
| EQT 0024 C-36 | | | | | | | | | | 0.43 | 0.64 | 0.15 | | | |
| EQT 0025 C-47 | 2.47 | 3.71 | 9.96 | 2.94 | 4.41 | 11.85 | 0.27 | 0.41 | 1.09 | 0.02 | 0.03 | 0.07 | 0.16 | 0.24 | 0.65 |
| EQT 0026 C-49A | | | | | | | | | | 1.70 | | | | | |
| EQT 0027 C-49B | | | | | | | | | | | | | | | |
| EQT 0028 C-30 | | | | | | | | | | 0.43 | 0.64 | 0.15 | | | |
| EQT 0029 C-52 | 1.38 | 2.08 | 5.93 | 1.65 | 2.47 | 7.06 | 0.13 | 0.19 | 0.54 | 0.01 | 0.02 | 0.04 | 0.09 | 0.14 | 0.39 |
| EQT 0030 C-55 | | | | | | | | | | 0.27 | 0.41 | 0.07 | | | |
| EQT 0031 C-57 | 0.08 | 0.12 | 0.01 | 0.10 | 0.15 | 0.01 | 0.48 | 0.74 | 0.04 | <0.01 | <0.01 | <0.01 | 0.01 | 0.01 | <0.01 |
| EQT 0039 C-61 | 0.03 | 0.05 | <0.01 | 0.04 | 0.06 | <0.01 | 0.12 | 0.17 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| EQT 0040 C-64 | | | | | | | | | | 0.14 | 0.21 | 0.12 | | | |
| EQT 0041 C-7 | | | | | | | | | | 1.10 | 1.65 | 4.44 | | | |
| EQT 0043 C-73 | 2.00 | 3.00 | 8.76 | 2.45 | 3.68 | 10.74 | 0.82 | 1.23 | 3.59 | 0.16 | 0.24 | 0.70 | 0.14 | 0.20 | 0.59 |

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1413 - UOP LLC - Baton Rouge Plant
 Activity Number: PER20090005
 Permit Number: 0840-00009-V1
 Air - Title V Regular Permit Renewal

| Subject Item | CO | | | NOx | | | PM10 | | | SO2 | | | VOC | | |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Avg lb/hr | Max lb/hr | Tons/Year |
| Entire Facility | | | | | | | | | | | | | | | |
| EQT 0046 C-16 | | | | | | | | | | 0.09 | 0.14 | 0.39 | | | |
| EQT 0047 C-8 | 1.81 | 2.72 | 7.31 | 2.16 | 3.24 | 8.69 | 1.99 | 2.98 | 8.00 | 0.01 | 0.02 | 0.05 | 0.12 | 0.18 | 0.48 |
| EQT 0048 C-42 | | | | | | | | | | 0.08 | 0.12 | 0.04 | | | |
| EQT 0050 C-86 | | | | | | | | | | 0.51 | 0.77 | 2.03 | | | |
| EQT 0051 C-98 | | | | | | | | | | 0.02 | 0.03 | 0.09 | | | |
| EQT 0052 C-99 | | | | | | | | | | 0.04 | 0.07 | 0.18 | | | |
| EQT 0053 C-116 | | | | | | | | | | 0.18 | 0.27 | 0.79 | | | |
| FUG 0001 C-30 | | | | | | | | | | 0.10 | 0.15 | 0.44 | | | |
| FUG 0002 C-33 | | | | | | | | | | <0.01 | <0.01 | <0.01 | | | |
| FUG 0003 C-51 | | | | | | | | | | <0.01 | <0.01 | <0.01 | | | |
| FUG 0004 C-58 | | | | | | | | | | 0.10 | 0.15 | 0.44 | | | |
| FUG 0005 C-43 | | | | | | | | | | 0.20 | 0.30 | 0.88 | | | |
| GRP 0003 C-49 CAP | | | | | | | | | | 1.13 | 4.56 | | | | |

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

Emissions rates Notes:

| | | | | |
|----------|------|-----------|---|--|
| EQT 0014 | VOC | Avg lb/hr | Emitted as Acetic Acid | Which Months: All Year |
| EQT 0014 | VOC | Max lb/hr | Emitted as Acetic Acid | Which Months: All Year |
| EQT 0014 | VOC | Tons/Year | Emitted as Acetic Acid | Which Months: All Year |
| EQT 0015 | VOC | Avg lb/hr | Emitted as Acetic Acid | Which Months: All Year |
| EQT 0015 | VOC | Max lb/hr | Emitted as Acetic Acid | Which Months: All Year |
| EQT 0015 | VOC | Tons/Year | Emitted as Acetic Acid | Which Months: All Year |
| GRP 0003 | PM10 | Avg lb/hr | Administrative emission Cap based on worst case operation of only one filter set operating at a time. | Normal operation is both filter sets operating simultaneously |
| GRP 0003 | PM10 | Tons/Year | Which Months: All Year | Administrative emission Cap based on worst case operation of only one filter set operating at a time |
| GRP 0003 | | | Which Months: All Year | Normal operation is both filter sets operating simultaneously |

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1413 - UOP LLC - Baton Rouge Plant

Activity Number: PER20090005

Permit Number: 0840-00009-V1

Air - Title V Regular Permit Renewal

| Emission Pt. | Pollutant | Avg lb/hr | Max lb/hr | Tons/Year |
|--------------------|-----------------------------------|-----------|-----------|-----------|
| EQT 0009 C-10 | Copper (and compounds) | 0.69 | 1.04 | 0.42 |
| EQT 0010 C-102 | Hydrochloric acid | 0.01 | 0.45 | 0.04 |
| EQT 0011 C-103 | Hydrochloric acid | 0.01 | 0.43 | 0.03 |
| EQT 0013 C-105 | Sulfuric acid | <0.01 | 0.01 | <0.01 |
| EQT 0017 C-111 | 2,2,4-Trimethylpentane | <0.01 | 0.03 | <0.01 |
| | Benzene | <0.01 | 0.03 | <0.01 |
| | Ethyl benzene | <0.01 | 0.004 | <0.01 |
| | Methyl Tertiary Butyl Ether | 0.01 | 0.45 | 0.04 |
| | Polynuclear Aromatic Hydrocarbons | <0.01 | <0.01 | <0.01 |
| | Toluene | <0.01 | 0.04 | <0.01 |
| | Xylene (mixed isomers) | <0.01 | 0.02 | <0.01 |
| | n-Hexane | <0.01 | 0.053 | <0.01 |
| EQT 0018 C-112 | Chlorine | <0.01 | <0.01 | 0.01 |
| EQT 0023 C-24 | Copper (and compounds) | 0.08 | 0.12 | 0.05 |
| EQT 0049 C-84 | Hydrochloric acid | <0.01 | 0.04 | 0.02 |
| FUG 0001 C-30 | Copper (and compounds) | 0.05 | 0.07 | 0.03 |
| UNF 0001 UNF001 | 2,2,4-Trimethylpentane | | | <0.01 |
| | Benzene | | | <0.01 |
| | Chlorine | | | 0.01 |
| | Copper (and compounds) | | | 0.50 |
| | Ethyl benzene | | | <0.01 |
| | Hydrochloric acid | | | 0.09 |
| | Methyl Tertiary Butyl Ether | | | 0.04 |
| | Polynuclear Aromatic Hydrocarbons | | | <0.01 |
| | Sulfuric acid | | | <0.01 |
| | Toluene | | | <0.01 |
| | Xylene (mixed isomers) | | | <0.01 |
| | n-Hexane | | | <0.01 |

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AI ID: 1413 - UOP LLC - Baton Rouge Plant
Activity Number: PER20090005
Permit Number: 0840-00009-V1
Air - Title V Regular Permit Renewal

CRG 0001 BH-CO-ST-CAM - Baghouse/Combustion/CSStack Test/AM REQTs

Group Members: EQT 00090EQT 0022EQT 0043EQT 0047

- 1 [40 CFR 64.3(b)(1)] Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
- 2 [40 CFR 64.6(c)(1)] Visible emissions monitored by visual inspection/determination daily when in service. If visible emissions are observed, return the filter to compliance as expeditiously as practicable, but at a maximum within three working days, in accordance with good air pollution control practices for minimizing emissions. [40 CFR 64.6(c)(1)]
- 3 [40 CFR 64.6(c)(2)] Which Month(s): All Year Statistical Basis: None specified An exceedance is defined as opacity in excess of 20% for more than six minutes in any 60-minute period. An excursion is also any missed daily observation that is not due to a planned or demand shutdown. [40 CFR 64.6(c)(2)]
- 4 [40 CFR 64.6(c)(2)] An excursion is defined as the presence of any visible emissions. An excursion is also any missed daily observation that is not due to a planned or demand shutdown. [40 CFR 64.6(c)(2)]
- 5 [40 CFR 64.6(c)(2)] Submit Notification: Submit to DEQ within 5 working days upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 6 [40 CFR 64.6(c)(4)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. [40 CFR 64.6(c)(4)]
- 7 [40 CFR 64.7(a)] Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 8 [40 CFR 64.7(b)] Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- 9 [40 CFR 64.7(c)] Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- 10 [40 CFR 64.7(d)(1)] Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 11 [40 CFR 64.7(e)] Submit written notification: Due to the Office of Environmental Compliance within 5 working days upon identifying a failure to achieve compliance with the no visible emissions, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 12 [40 CFR 64.8(a)] A total of 20 hours of downtime of the collector per year, while the unit is in operation, or a total of 168 hours/yr of exceedances, is the threshold limit of excursions or exceedances at which implementation of a QIP is required. [40 CFR 64.8(a)]

SPECIFIC REQUIREMENTS

AI ID: 1413 - UOP LLC - Baton Rouge Plant
 Activity Number: PER20090005
 Permit Number: 0840-0009-V1
 Air - Title V Regular Permit Renewal

CRG 0001 BH-CO-ST-CAM - Baghouse/Combustion/CStack Test/AM REQTs

- 13 [40 CFR 64.9(a)]
 Submit report. Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(ii), as applicable. [40 CFR 64.9(a)]
- 14 [40 CFR 64.9(b)(1)]
 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 15 [40 CFR 64.9(b)(1)]
 Visible emissions recordkeeping by electronic or hard copy daily when in service. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 16 [40 CFR 64.9(b)(1)]
 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 17 [40 CFR 64.9(b)(1)]
 Monitoring data recordkeeping by electronic or hard copy at the approved frequency. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 18 [LAC 33:III 1101.B]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 19 [LAC 33:III 1311.B]
 Which Months: All Year Statistical Basis: None specified
 The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.
- 20 [LAC 33:III 1313.C]
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
- 21 [LAC 33:III 507 H 1 a]
 Which Months: All Year Statistical Basis: None specified
 Filter vents: Equipment/operational data recordkeeping by electronic or hard copy daily when in service. Keep the purchase order or manufacturer certification showing that the installed filters meets or exceeds the performance of those filters that were in use during the stack test; records of visible emissions checks; and records of maintenance activities. Keep records on site for a period of at least five years and available for review by the Office of Environmental Compliance.
- 22 [LAC 33:III 507 H 1 a]
 Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of inspections and maintenance activities on site for a period of at least five years and available for inspection by the Office of Environmental Compliance.
- 23 [LAC 33:III 507 H 1 a]
 Baghouses (including gaskets): Equipment/operational data monitored by technically sound method semiannually or whenever a visible emissions check indicates maintenance may be necessary. Change elements as necessary.
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1413 - UOP LLC - Baton Rouge Plant
Activity Number: PER20090005
Permit Number: 0840-00009-V1
Air - Title V Regular Permit Renewal

CRG 0002 BH-CO-GL - Baghouse/Combustion/Grain Loading/ REQTs

Group Members: EQT 0031EQT 0039

- 24 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
- The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.
- 25 [LAC 33:III.1311.B] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
- 26 [LAC 33:III.1313.C] Filter vents: Opacity <= 20 percent average of the shade or appearance of the emission for one minute following the installation of new bags.
 Which Months: All Year Statistical Basis: None specified
- 27 [LAC 33:III.501.C.6] Particulate matter (10 microns or less) <= 0.020 gr/dscf.
 Which Months: All Year Statistical Basis: None specified
- 28 [LAC 33:III.501.C.6] Baghouses (including gaskets): Equipment/operational data monitored by technically sound method semiannually or whenever a visible emissions check indicates maintenance may be necessary. Change elements as necessary.
 Which Months: All Year Statistical Basis: None specified
- 29 [LAC 33:III.507.H.1.a] Filter vents: Opacity monitored by technically sound method upon occurrence of event when in service. Monitor during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags by either a Continuous Monitoring System (COMS) that meets the requirements of 40 CFR 60 Appendix B Performance Specification 1, a qualified, certified visible emissions inspector, in accordance with 40 CFR 60 Appendix A Method 9, or 40 CFR 60 Appendix A Method 22, if the emission point generally exhibits no visible emissions. If Method 22 is used, perform an opacity reading according to 40 CFR 60 Appendix A Method 9 within 1 hour, if visible emissions are present at greater than fifteen percent opacity. Ensure that the BMP plan specifies when opacity readings will be taken in lieu of no visible emissions and the frequency at which readings of percent opacity will be taken.
 Which Months: All Year Statistical Basis: None specified
- 30 [LAC 33:III.507.H.1.a] Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of inspections and maintenance activities on site for a period of at least five years and available for inspection by the Office of Environmental Compliance.
 Which Months: All Year Statistical Basis: None specified
- 31 [LAC 33:III.507.H.1.a] Filter vents: Visible emissions recordkeeping by electronic or hard copy daily when in service. Keep the purchase order or manufacturer certification showing that the installed filters meet the Manufacturer's specification for particulate matter removal efficiency or the filter MERV rating, as applicable; records of visible emissions checks or differential pressure gauge readings, as applicable; and records of maintenance activities. Keep records on site for a period of at least five years and available for review by the Office of Environmental Compliance.
- 32 [LAC 33:III.507.H.1.a] Filter vents: Visible emissions monitored by visual inspection/determination daily when in service. If visible emissions are observed, return the filter to compliance as expeditiously as practicable, but at a maximum within three working days, in accordance with good air pollution control practices for minimizing emissions.
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1413 - UOP LLC - Baton Rouge Plant
Activity Number: PER20090005
Permit Number: 0840-00009-V1
Air - Title V Regular Permit Renewal

CRG 0003 BH-ST-CAM - Baghouse/Stack Test/CAM

Group Members: EQT 0026 EQT 0027 EQT 0041

- 34 [40 CFR 64.3(b)(3)] Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
- 35 [40 CFR 64.6(c)(1)] Visible emissions monitored by technically sound method daily when in service. [40 CFR 64.6(c)(1)]
- 36 [40 CFR 64.6(c)(2)] Which Months: All Year Statistical Basis: None specified An excursion is defined as the presence of any visible emissions. An excursion is also any missed daily observation that is not due to a planned or demand shutdown. [40 CFR 64.6(c)(2)]
- 37 [40 CFR 64.6(c)(2)] Submit Notification: Submit to DEQ within 5 working days upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)] An exceedance is defined as opacity in excess of 20% for more than six minutes in any 60-minute period. An excursion is also any missed daily observation that is not due to a planned or demand shutdown. [40 CFR 64.6(c)(2)]
- 38 [40 CFR 64.6(c)(2)] Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 39 [40 CFR 64.7(a)] Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- 40 [40 CFR 64.7(b)] Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- 41 [40 CFR 64.7(c)] Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 42 [40 CFR 64.7(d)(1)] Submit written notification: Due to the Office of Environmental Compliance within 5 working days upon identifying a failure to achieve compliance with the no visible emissions, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 43 [40 CFR 64.7(e)] A total of 20 hours of downtime of the collector per year, while the unit is in operation, or a total of 168 hours/yr of exceedances, is the threshold limit of excursions or exceedances at which implementation of a QIP is required. [40 CFR 64.8(a)]
- 44 [40 CFR 64.8(a)]

SPECIFIC REQUIREMENTS

AI ID: 1413 • UOP LLC - Baton Rouge Plant
 Activity Number: PER20090005
 Permit Number: 0840-00009-V1
 Air - Title V Regular Permit Renewal

CRG 0003 BH-ST-CAM - Baghouse/Stack Test/CAM

- Submit report. Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- Visible emissions recordkeeping by electronic or hard copy daily when in service. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- Visible emissions recordkeeping by electronic or hard copy daily when in service. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limit established in Table 3 of Chapter 13.
- Filter vents: Opacity <= 20 percent average of the shade or appearance of the emission for one minute following the installation of new bags.
 Which Months: All Year Statistical Basis: None specified
- Filter vents: Equipment/operational data recordkeeping by electronic or hard copy daily when in service. Keep the purchase order or manufacturer certification showing that the installed filters meets or exceeds the performance of those filters that were in use during the stack test; records of visible emissions checks; and records of maintenance activities. Keep records on site for a period of at least five years and available for review by the Office of Environmental Compliance.
- Filter vents: Opacity monitored by technically sound method upon occurrence of event. Monitor during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags by either a Continuous Monitoring System (COMS) that meets the requirements of 40 CFR 60 Appendix B Performance Specification 1, a qualified, certified visible emissions inspector, in accordance with 40 CFR 60 Appendix A Method 9, or 40 CFR 60 Appendix A Method 22, if the emission point generally exhibits no visible emissions. If Method 22 is used, perform an opacity reading according to 40 CFR 60 Appendix A Method 9 within 1 hour, if visible emissions are present at greater than fifteen percent opacity. Ensure that the BMP plan specifies when opacity readings will be taken in lieu of no visible emissions and the frequency at which readings of percent opacity will be taken.
 Which Months: All Year Statistical Basis: None specified
- Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of inspections and maintenance activities on site for a period of at least five years and available for inspection by the Office of Environmental Compliance.

SPECIFIC REQUIREMENTS

AI ID: 1413 - UOP LLC - Baton Rouge Plant
 Activity Number: PER20090005
 Permit Number: 0840-00009-V1
 Air - Title V Regular Permit Renewal

CRG 0003 BH-ST-CAM - Baghouse/Stack Test/CAM

55 [LAC 33.III.507.H.1.a]

Baghouses (including gaskets): Equipment/operational data monitored by technically sound method semiannually or whenever a visible emissions check indicates maintenance may be necessary. Change elements as necessary.

Which Months: All Year Statistical Basis: None specified

CRG 0004 BH-GL/CAM - Baghouse/Grain Loading/CAM REQTS

Group Members: EOT 0019 EOT 0050

- Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
- Visible emissions monitored by visual inspection/determination daily when in service. If visible emissions are observed, return the filter to compliance as expeditiously as practicable, but at a maximum within three working days, in accordance with good air pollution control practices for minimizing emissions. [40 CFR 64.6(c)(1)]
- Which Months: All Year Statistical Basis: None specified
- An excursion is defined as the presence of any visible emissions. An excursion is also any missed daily observation that is not due to a planned or demand shutdown. [40 CFR 64.6(c)(2)]
- Submit Notification: Submit to DEQ within 5 working days upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- An exceedance is defined as opacity in excess of 20% for more than six minutes in any 60-minute period. An excursion is also any missed daily observation that is not due to a planned or demand shutdown. [40 CFR 64.6(c)(2)]
- Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]

SPECIFIC REQUIREMENTS

All ID: 1413 - UOP LLC - Baton Rouge Plant
Activity Number: PER2009005
Permit Number: 0840-00009-V1
Air - Title V Regular Permit Renewal

CRG 0004 BH-GL/CAM - Baghouse/Grain Loading/CAM REQTS

- 65 [40 CFR 64.7(e)]
 Submit written notification: Due to the Office of Environmental Compliance within 5 working days upon identifying a failure to achieve compliance with the no visible emissions, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 66 [40 CFR 64.8(a)]
 A total of 20 hours of downtime of the collector per year, while the unit is in operation, or a total of 168 hours/yr of exceedances, is the threshold limit of excursions or exceedances at which implementation of a QIP is required. [40 CFR 64.8(a)]
- 67 [40 CFR 64.9(a)]
 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(ii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 68 [40 CFR 64.9(b)(1)]
 Visible emissions recordkeeping by electronic or hard copy daily when in service. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(2)(i)]
- 69 [40 CFR 64.9(b)(1)]
 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 70 [40 CFR 64.9(b)(1)]
 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 71 [LAC 33:III.1311.B]
 The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.
- 72 [LAC 33:III.501.C.6]
 Particulate matter (10 microns or less) <= 0.020 gr/dscf from filter manufacturer's certification.
- 73 [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: None specified
 Filter vents: Opacity <= 20 percent average of the shade or appearance of the emission for one minute following the installation of new bags.
- 74 [LAC 33:III.507.H.1.a]
 Which Months: All Year Statistical Basis: None specified
 Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of inspections and maintenance activities on site for a period of at least five years and available for inspection by the Office of Environmental Compliance.
- 75 [LAC 33:III.507.H.1.a]
 Baghouses (including gaskets): Equipment/operational data monitored by technically sound method semiannually or whenever a visible emissions check indicates maintenance may be necessary. Change elements as necessary.
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1413 - UOP LLC - Baton Rouge Plant
 Activity Number: PER20090005
 Permit Number: 0840-00009-V1
 Air - Title V Regular Permit Renewal

CRG 0004 BH-GL/CAM - Baghouse/Grain Loading/CAM REQTS

76 [LAC 33:II.507.H.1.a]
 Filter vents: Opacity monitored by technically sound method upon occurrence of event when in service. Monitor during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags by either a Continuous Monitoring System (COMS) that meets the requirements of 40 CFR 60 Appendix B Performance Specification 1, a qualified, certified visible emissions inspector, in accordance with 40 CFR 60 Appendix A Method 9, or 40 CFR 60 Appendix A Method 22, if the emission point generally exhibits no visible emissions. If Method 22 is used, perform an opacity reading according to 40 CFR 60 Appendix A Method 9 within 1 hour, if visible emissions are present at greater than fifteen percent opacity. Ensure that the BMP plan specifies when opacity readings will be taken in lieu of no visible emissions and the frequency at which readings of percent opacity will be taken.
 Which Months: All Year Statistical Basis: None specified

CRG 0005 BH-ST - Baghouse/Stack Test REQTS

Group Members: EOT 0020EQT 0046EQT 0048EQT 0051EQT 0052

77 [LAC 33:II.131.B]
 The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.

78 [LAC 33:II.501.C.6]
 Filter vents: Opacity <= 20 percent average of the shade or appearance of the emission for one minute following the installation of new bags.
 Which Months: All Year Statistical Basis: None specified

79 [LAC 33:II.507.H.1.a]
 Baghouses (including gaskets): Equipment/operational data monitored by technically sound method semiannually or whenever a visible emissions check indicates maintenance may be necessary. Change elements as necessary.
 Which Months: All Year Statistical Basis: None specified

80 [LAC 33:II.507.H.1.a]
 Filter vents: Visible emissions recordkeeping by electronic or hard copy daily when in service. Keep the purchase order or manufacturer certification showing that the installed filters meet the Manufacturer's specification for particulate matter removal efficiency or the filter MERV rating, as applicable, records of visible emissions checks or differential pressure gauge readings, as applicable, and records of maintenance activities. Keep records on site for a period of at least five years and available for review by the Office of Environmental Compliance.

81 [LAC 33:II.507.H.1.a]
 Filter vents: Opacity monitored by technically sound method upon occurrence of event. Monitor during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags by either a Continuous Monitoring System (COMS) that meets the requirements of 40 CFR 60 Appendix B Performance Specification 1, a qualified, certified visible emissions inspector, in accordance with 40 CFR 60 Appendix A Method 9, or 40 CFR 60 Appendix A Method 22, if the emission point generally exhibits no visible emissions. If Method 22 is used, perform an opacity reading according to 40 CFR 60 Appendix A Method 9 within 1 hour, if visible emissions are present at greater than fifteen percent opacity. Ensure that the BMP plan specifies when opacity readings will be taken in lieu of no visible emissions and the frequency at which readings of percent opacity will be taken.
 Which Months: All Year Statistical Basis: None specified

82 [LAC 33:II.507.H.1.a]
 Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of inspections and maintenance activities on site for a period of at least five years and available for inspection by the Office of Environmental Compliance.

SPECIFIC REQUIREMENTS

AI ID: 1413 - UOP LLC - Baton Rouge Plant
Activity Number: PER20090005
Permit Number: 0840-00009-V1
Air - Title V Regular Permit Renewal

CRG 0005 BH-ST - Baghouse/Stack Test REQTs

83 [LAC 33:III.507.H.1.a]

Filter vents: Visible emissions monitored by visual inspection/determination daily when in service. If visible emissions are observed, return the filter to compliance as expeditiously as practicable, but at a maximum within three working days, in accordance with good air pollution control practices for minimizing emissions.

Which Months: All Year Statistical Basis: None specified

CRG 0006 BH-GL - Baghouse/Grain Loading REQTs

Group Members: EQT 0016EQT 0023EQT 0024EQT 0028EQT 0030EQT 0040EQT 0053

84 [LAC 33:III.1311.B]

The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.

85 [LAC 33:III.501.C.6]

Particulate matter (10 microns or less) <= 0.020 gr/dscf, except for C-116 - Active B Bin Vent Dust Collector, EQT053 where it is <= 0.005 gr/dscf, from filter manufacturer's certification.

Which Months: All Year Statistical Basis: None specified

86 [LAC 33:III.501.C.6]

Filter vents: Opacity <= 20 percent average of the shade or appearance of the emission for one minute following the installation of new bags.

Which Months: All Year Statistical Basis: None specified

87 [LAC 33:III.507.H.1.a]

Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of inspections and maintenance activities on site for a period of at least five years and available for inspection by the Office of Environmental Compliance.

88 [LAC 33:III.507.H.1.a]

Filter vents: Opacity monitored by technically sound method upon occurrence of event. Monitor during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags by either a Continuous Monitoring System (COMS) that meets the requirements of 40 CFR 60 Appendix B Performance Specification 1, a qualified, certified visible emissions inspector, in accordance with 40 CFR 60 Appendix A Method 9, or 40 CFR 60 Appendix A Method 22, if the emission point generally exhibits no visible emissions. If Method 22 is used, perform an opacity reading according to 40 CFR 60 Appendix A Method 9 within 1 hour, if visible emissions are present at greater than fifteen percent opacity. Ensure that the BMP plan specifies when opacity readings will be taken in lieu of no visible emissions and the frequency at which readings of percent opacity will be taken.

89 [LAC 33:III.507.H.1.a]

Which Months: All Year Statistical Basis: None specified

Baghouses (including gaskets): Equipment/operational data monitored by technically sound method semiannually or whenever a visible emissions check indicates maintenance may be necessary. Change elements as necessary.

90 [LAC 33:III.507.H.1.a]

Filter vents: Visible emissions monitored by visual inspection/determination daily when in service. If visible emissions are observed, return the filter to compliance as expeditiously as practicable, but at a maximum within three working days, in accordance with good air pollution control practices for minimizing emissions.

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1413 - UOP LLC - Baton Rouge Plant
 Activity Number: PER20090005
 Permit Number: 0840-00009-V1
 Air - Title V Regular Permit Renewal

CRG 0006 BH-GL - Baghouse/Grain Loading REQTs

Filter vents: Visible emissions recordkeeping by electronic or hard copy daily, when in service. Keep the purchase order or manufacturer certification showing that the installed filters meet the Manufacturer's specification for particulate matter removal efficiency or the filter MERV rating, as applicable; records of visible emissions checks or differential pressure gauge readings, as applicable; and records of maintenance activities. Keep records on site for a period of at least five years and available for review by the Office of Environmental Compliance.

EQT 0017 C-111 - Gasoline Tank

92 [LAC 33:III.2103.A] Equip with a submerged fill pipe.
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2|03.1.| - 7, as applicable.

EQT 0018 C-112 - Cooling Tower

95 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

EQT 0021 C-115 - Steam Boiler No. 2

96 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified

EQT 0029 C-52 - Package Steam Boiler

98 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified

EQT 0049 C-84 - Tank Farm Scrubber

SPECIFIC REQUIREMENTS

AI ID: 1413 - UOP LLC - Baton Rouge Plant
 Activity Number: PER20090005
 Permit Number: 0840-00009-V1
 Air - Title V Regular Permit Renewal

EQT 0049 C-84 - Tank Farm Scrubber

- 100 [LAC 33:III.501.C.6] Flow rate ≥ 40 gallons/min during operation.
 Which Months: All Year Statistical Basis: None specified
 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance. This report can be combined with reports required under LAC 33:III.535.
- 101 [LAC 33:III.507.H.1.a] Flow rate recordkeeping by electronic or hard copy once every shift during operation.
- 102 [LAC 33:III.507.H.1.a] Flow rate monitored by flow rate monitoring device once every shift during operation.
- 103 [LAC 33:III.507.H.1.a] Which Months: All Year Statistical Basis: None specified

FUG 0001 C-30 - Active B Fugitive Emissions

- 104 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.

FUG 0002 C-33 - Versal I Plant Fugitive Emissions

- 105 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.

FUG 0003 C-51 - Versal II Plant Fugitive Emissions

- 106 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.

FUG 0004 C-68 - Active A Fugitive Emissions

- 107 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.

FUG 0005 C-83 - Active Powder Fugitive Emissions

- 108 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.

UNF 0001 UNF001 - Entire Facility

- 109 [40 CFR 61.145(b)(1)] Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]

SPECIFIC REQUIREMENTS

AI ID: 1413 - UOP LLC - Baton Rouge Plant
Activity Number: PER20090005
Permit Number: 0840-00009-V1
Air - Title V Regular Permit Renewal

UNF 0001 UNF001 - Entire Facility

- 110 [40 CFR 61.148] Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.
- Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- 111 [40 CFR 82 Subpart F] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only).
- Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HR VOC), which include 1,3-Butadiene, Butene, cis-2-Butene, Ethylene, Propylene, Xylene, Toluene, m/p-Xylene, o-Xylene. (State Only).
- An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.
- Submit initial emissions inventory report. Due to the Department of Environmental Quality on or before October 1, 1994. Submit on a form or in an electronic format specified by the department and include the information specified in LAC 33:III.5307.A.1 through 7.
- Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537. [LAC 33:III.535, LAC 33:III.537]
- Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert.
- Activate the preplanned strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning

SPECIFIC REQUIREMENTS

AI ID: 1413 - UOP LLC - Baton Rouge Plant
Activity Number: PER20090005
Permit Number: 0840-00009-V1
Air - Title V Regular Permit Renewal

UNF 0001 UNF001 - Entire Facility

- 125 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.
- 126 [LAC 33:III.5609.A] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
- 127 [LAC 33:III.919.D] Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.
- Submit Emission Inventory (EI) Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.